

VEGA® STAR



Compact

This elegant, all-in-one set-top uses any standard TV monitor

Convenient

Integrated MCU with Continuous Presence enables expedient communication and collaboration

Reliable

Excellent audio coding and professional camera ensure natural and free-flowing conversation

OVERVIEW

Ideal for medium-sized videoconferencing meetings, Aethra's Vega® Star is an easily portable, professional set-top system. It runs over ISDN or IP networks conforming to H.320 and H.323 standards and offers optional leased line support. The integrated Multipoint Conferencing Unit (MCU) provides multiple audio and video connections with Continuous Presence in mixed mode (ISDN and IP), allowing up to 3 participants at 512 kbps or 5 participants at 128 kbps to view one another simultaneously.

MULTIPLE NETWORK CONNECTIVITY

Supports ISDN and IP-based (H.323) communications standards, as well as optional leased or satellite connections. WiFi (IEEE 802.11b) Card can be added to the PCMCIA slot for a wireless LAN connection.

MULTIPOINT CONFERENCING

The built-in MCU can connect up to 5 sites with dial-out and dial-in (Meet Me) configuration, in mixed mode with Continuous Presence.

EASY TO UPGRADE

Flexible, simple architecture enables easy re-configuration of the system. Ready to upgrade simply by adding different cards. Change the channel aggregator card and upgrade in one easy step!

PATENTED VOICE TRACKING

The camera, with Aethra's patented Voice Tracking feature, enables more natural communication by automatically focusing on the active speaker.

EASY TO INSTALL AND USE

With the intuitive graphical user interface, installation is simple. On-screen contextual help, address book dialing, and web-based maintenance and support mean the system is accessible for even the most novice user.

FEATURES AT A GLANCE

- Dual monitor support
- 30 fps video at 168 kbps
- T.120 multimedia support
- Embedded PowerPoint® presentation
- Video mute
- Full-duplex audio with echo cancellation
- Automatic Noise Suppression
- Remote diagnostics and management
- Available in a split configuration (camera separate from codec)
- Web streaming function
- Wireless LAN support



TECHNICAL SPECIFICATIONS SUPPORTED STANDARDS

•ITU-T H.320	ISDN, leased networks
•ITU-T H.323	IP networks
•Video	H.261, H.263++ (I, J, T, F)
•Audio	G.711, G.722, G.728, G.723.1
•Data	T.120
•MCU compatibility	H.243

TRANSMISSION

•Bit rate	56 ÷ 512 kbps over ISDN
	64 ÷ 1.2 Mbps over IP
	56 ÷ 1.2 Mbps over V.35/Leased

VIDEO

•Frame rate	15 frames per second @ 56-128 kbps
	30 frames per second @ 168kbps-1.2 Mbps
•Video resolution	FCIF 352x288 pixels
	QCIF 176x144 pixels
	4CIF 704x576 pixels for still images (H.261 Annex D)
•Remote camera control	H.281 (H.320) H.282/H.283 (H.323)

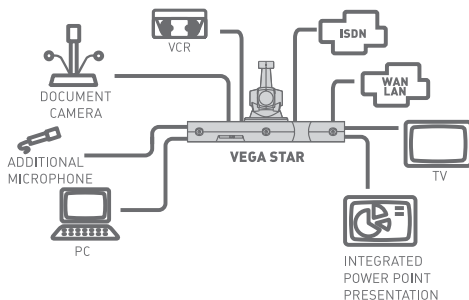
AUDIO

Audio	Band	Bit rate
G.711	300 ÷ 3400 Hz	56 kbps
G.722	50 ÷ 7000 Hz	48/56 kbps
G.723.1	300 ÷ 3400 Hz	5.3/6.3 kbps
G.728	50 ÷ 3400 Hz	16 kbps

•Echo cancellation	Full-duplex
•Echo Return Loss Enhancement (ERLE)	30 dB
•Automatic Gain Control (AGC)	±12 dB
•Automatic Noise Suppression	

AUDIO TRACKING

•Tracking	Enhanced Voice Tracking
•Coverage	max.6 m, recommended 3 m
•Location	±60° horizontal, ±25° vertical



DIGITAL MICROPHONE POD

•Range	360°
•Response	50 ÷ 7000 Hz
•Microphones	3
•Mute button	
•Up to 2 pods in a daisy-chain configuration	

BUILT-IN CAMERA

•Resolution	752x582 pixels
•Preset	12 presets
•H. Angle of view	6.6 to 65 degrees
•Zoom	40x (10x optical + 4x digital)

SUPPORTED MONITOR

•Format	PAL or NTSC
•Single, dual monitor	
•PIP function	

NETWORK INTERFACES

•Basic version	
ISDN	
1 BRI	1 RJ-45
Ethernet	
2-Port 10/100BASE-T full-duplex with integrated switch	2 RJ-45
•Optional	
ISDN	
3 BRI with integrated channel aggregator	3 RJ-45
Leased networks	
X.21/V.35/RS366/RS449/RS530	44pin Hi/Den
or G.703	1 RJ-45

AUDIO/VIDEO INTERFACES

•Video inputs	
Main camera	Integrated S-video, not accessible
VCR	Composite (RCA)
Doc. Cam. 1	S-video (Mini-DIN)
Doc. Cam. 2	S-video (Mini-DIN)
Doc. Cam. 3	Composite (RCA)

•Video outputs	
Monitor 1	Composite (RCA)
	S-video (Mini-DIN)
Monitor 2	S-video (Mini-DIN)
	with monitor detect
VCR	Composite (RCA)

•Audio inputs			
Connection	Level	Connector	
2xPod mic. 360°	Mic	1 RJ-11 6/6	
Aux.mic.	Mic	Stereo jack 3.5mm	
Audio In	Line	1 RCA	
VCR	Line	2 RCA (L/R)	

•Audio outputs		
Monitor 1	Line	2 RCA (L/R)
VCR	Line	2 RCA (L/R)

AUXILIARY INTERFACES

•Data RS232	Mini-DIN 8-pin with DB9 adapter
•Diagnostics RS232	Mini-DIN 8-pin
•VISCA RS232	Mini-DIN 8-pin
	supports Canon or Sony PTZ camera
•PC card	1 PCMCIA, type III

USER INTERFACE

•Multilingual on-screen graphic user interface	
•User selectable languages:	Italian, English, French, Spanish, German, Portuguese, Norwegian, Swedish, Chinese
•Infrared remote control for full function control	
•Contextual help	
•Diagnostics and management functions	
•Call progress monitoring	

MULTIPOINT FUNCTION

•Integrated MCU	H.320 and H.323 mixed mode
5 participants	@ 128 kbps
4 participants	@ 256 kbps
3 participants	@ 384 kbps
3 participants	@ 512 kbps
•Compatible with analog and mobile networks	
•Video coding	H.261, H.263++
•Audio coding	G.711, G.722, G.728
•Chair control	H.243
•Dial-In/Dial-Out capabilities	
•Continuous Presence	

WEB MANAGEMENT

All the configuration, call, diagnostics and management functions are accessible using the following web browsers: Microsoft® Internet Explorer™, Netscape Navigator™

REMOTE DIAGNOSTICS AND MANAGEMENT

	Local	Web Browser	SNMP
Self test	Yes	Yes	Yes
Diagnostics	Yes	Yes	Yes
Configuration	Yes	Yes	Yes
Call	Yes	Yes	
Error tracking	Yes	Yes	Yes

INTEGRATED PRESENTATION

•Supported applications	Microsoft® PowerPoint®
•Multimedia support	T.120

POWER SUPPLY

•100-240 Vac 50-60 Hz 1.3 A Max

DIMENSIONS

•VEGA STAR	
Width	47 cm (18.5")
Height	25.8 cm (10")
Depth	24.1 cm (9.5")

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